

(12) AUSTRALIAN PATENT ABRIDGMENT

(19) AU

(11) AU-B-11643/83

(54) MILD LIQUID DETERGENT COMPOSITION

(71) COLGATE-PALMOLIVE COMPANY

(21) 11643/83 559168

(22) 18.2.83

(24) 19.2.82

(31) 350497

(32) 19.2.82

(33) US

(44) 26.2.87

(43) 25.8.83

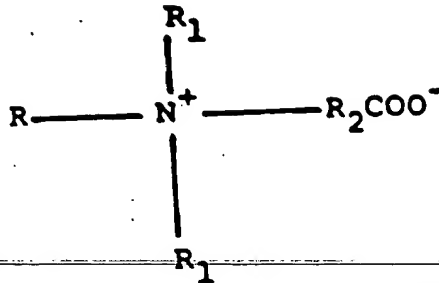
(51)<sup>3</sup> C11D 1/94

(72) STEPHEN CO. KLISCH, KUO-YANN LAT AND CLARENCE R. ROBBINS

(74) RI

(57) Claim

1. A high foaming liquid detergent composition having reduced skin-irritation properties wherein the active detergent ingredient comprises a mixture of, by weight, 8 to 30% of an alkyl ether sulfate having the structural formula  $R(OC_2H_4)_nOSO_3M$  wherein R is an alkyl of 10 to 16 carbon atoms, n has an average value of 5 to 12 and M is a cation; a supplementary, water-soluble, non-soap, anionic detergent having in its molecular structure a C<sub>7</sub>-C<sub>22</sub> alkyl, alkyenyl or acyl group and a sulfonate, sulfate or carboxylate group, the weight ratio of said alkyl ether sulfate to said supplementary detergent being in the range of 1:1 to 20:1; 1 to 8% of a zwitterionic detergent having the structural formula



wherein R is a C<sub>8</sub>-C<sub>18</sub> alkyl or C<sub>8</sub>-C<sub>18</sub> alkanamido C<sub>2</sub>-C<sub>3</sub> alkyl group, R<sub>1</sub> is C<sub>1</sub>-C<sub>3</sub> alkyl group and R<sub>2</sub> is a C<sub>1</sub>-C<sub>4</sub> alkylene or hydroxyalkylene group and 1 to 8% of an N-C<sub>8</sub>-C<sub>18</sub> alkanolic acid C<sub>2</sub>-C<sub>3</sub> alkanolamide, the weight ratio of said alkanolamide to said zwitterionic detergent being in the range of 1:4 to 4:1; and the balance being an aqueous medium comprising water.